

Message

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**From:** Joy Dunay [jdunay@anchorqea.com]  
**Sent:** 10/8/2019 2:51:42 PM  
**To:** Sanga, Ravi [Sanga.Ravi@epa.gov]; Hoffman, Erika [Hoffman.Erika@epa.gov]; Brick Spangler [Spangler.B@portseattle.org]; dberlin@anchorqea.com  
**CC:** Sloan, Jon [Sloan.J@portseattle.org]; Brick Spangler [Spangler.B@portseattle.org]  
**Subject:** RE: [EXTERNAL] RE: T25 Sediment Tier 2 Sample Analysis Recommendations  
**Attachments:** Final\_T25\_SedChar2019\_20190926.xlsx; T25-SedTier3Triggers\_10.03.2019.xlsx; AQ\_PoS\_SD01\_T25\_ActualSampling\_201903.pdf; T25\_Sediment\_Logs\_FinalRevisions.pdf  
  
**Flag:** Follow up

Hi Ravi and Erika,

The validated Tier 2 sediment results are attached for your review. There are SMS exceedances of one or more chemical in all of the samples analyzed, so we are proposing to analyze additional sample archives using the same rationale as the Tier 2 testing. The T25-SedTier3Triggers excel file provides the proposed testing and rationale for each sample.

I've also included the sample location figure and boring logs to assist with your review. These haven't changed since I sent them back in June.

Let us know if you have any questions or need additional information. Upon EPA's approval we will request analysis of these additional samples.

Thanks,

**Joy Dunay**

Environmental Scientist  
206.903.3320

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**From:** Sanga, Ravi <Sanga.Ravi@epa.gov>  
**Sent:** Friday, August 2, 2019 12:09 PM  
**To:** Joy Dunay <jdunay@anchorqea.com>; Hoffman, Erika <Hoffman.Erika@epa.gov>; Brick Spangler <Spangler.B@portseattle.org>; Dan Berlin <dberlin@anchorqea.com>  
**Cc:** Sloan, Jon <Sloan.J@portseattle.org>; Brick Spangler <Spangler.B@portseattle.org>  
**Subject:** RE: [EXTERNAL] RE: T25 Sediment Tier 2 Sample Analysis Recommendations

Joy -- If it's not too late I wanted to follow up that there are a couple of samples (SC-07, 08 and 09) where the EWG opted to analyze sampling intervals that are well below the surface interval originally tested. EPA is fine with what has been proposed, as long as the EWG understands that if these intervals come up clean EPA may want to see additional characterization of shallower intervals in order to delineate the bottom of contamination. So therefore all remaining archived material must be kept intact.

Let me know if you have any questions.

Ravi

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**From:** Joy Dunay <jdunay@anchorqea.com>  
**Sent:** Thursday, July 25, 2019 1:51 PM  
**To:** Hoffman, Erika <Hoffman.Erika@epa.gov>; Brick Spangler <Spangler.B@portseattle.org>; Sanga, Ravi <Sanga.Ravi@epa.gov>; dberlin@anchorqea.com

**Subject:** RE: [EXTERNAL] RE: T25 Sediment Tier 2 Sample Analysis Recommendations

**Joy Dunay**

**Sent:** Thursday, July 25, 2019 1:38 PM

**Cc:** Sloan, Jon <[Sloan.J@portseattle.org](mailto:Sloan.J@portseattle.org)>; Brick Spangler <[Spangler.B@portseattle.org](mailto:Spangler.B@portseattle.org)>

**Subject:** RE: [EXTERNAL] RE: T25 Sediment Tier 2 Sample Analysis Recommendations

Just FYI - I have been out of the office for the past month and now just back since yesterday (which is why I haven't responded to these emails). Sounds like the analysis is underway and I look forward to seeing the resulting data.

Just wanted to clarify my non-response.

[illegible]

Erika Hoffman | Biologist | U.S. Environmental Protection Agency Washington Operations  
Office | 300 Desmond Drive, Suite 102 | Lacey, WA 98503 | 360.753.9540 |

**Sent:** Thursday, July 18, 2019 4:01 PM

**Cc:** Sloan, Jon <Sloan.J@portseattle.org>; Brick Spangler <Spangler.B@portseattle.org>

**Subject:** RE: [EXTERNAL] RE: T25 Sediment Tier 2 Sample Analysis Recommendations

Great, I'll trigger these samples for analysis.

Thanks,

## Joy Dunay

**From:** Spangler, Brick <Spangler.B@portseattle.org>

**Sent:** Thursday, July 18, 2019 3:27 PM

**To:** Sanga, Ravi <[Sanga.Ravi@epa.gov](mailto:Sanga.Ravi@epa.gov)>; Dan Berlin <[dberlin@anchoragea.com](mailto:dberlin@anchoragea.com)>; Joy Dunay <[jdunay@anchoragea.com](mailto:jdunay@anchoragea.com)>; Hoffman, Erika <[Hoffman.Erika@epa.gov](mailto:Hoffman.Erika@epa.gov)>  
**Cc:** Sloan, Jon <[Sloan.J@portseattle.org](mailto:Sloan.J@portseattle.org)>; Brick Spangler <[Spangler.B@portseattle.org](mailto:Spangler.B@portseattle.org)>  
**Subject:** RE: [EXTERNAL] RE: T25 Sediment Tier 2 Sample Analysis Recommendations

Thanks Ravi

Brick Spangler  
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**From:** Sanga, Ravi <[Sanga.Ravi@epa.gov](mailto:Sanga.Ravi@epa.gov)>  
**Sent:** Thursday, July 18, 2019 3:26 PM  
**To:** [dberlin@anchoragea.com](mailto:dberlin@anchoragea.com); Joy Dunay <[jdunay@anchoragea.com](mailto:jdunay@anchoragea.com)>; Hoffman, Erika <[Hoffman.Erika@epa.gov](mailto:Hoffman.Erika@epa.gov)>  
**Cc:** Spangler, Brick <[Spangler.B@portseattle.org](mailto:Spangler.B@portseattle.org)>; Sloan, Jon <[Sloan.J@portseattle.org](mailto:Sloan.J@portseattle.org)>  
**Subject:** [EXTERNAL] RE: T25 Sediment Tier 2 Sample Analysis Recommendations

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Dan EPA is fine with the trigger recommendations. Go ahead and move forward with the analysis.

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**From:** Dan Berlin <[dberlin@anchoragea.com](mailto:dberlin@anchoragea.com)>  
**Sent:** Tuesday, July 16, 2019 1:17 PM  
**To:** Joy Dunay <[jdunay@anchoragea.com](mailto:jdunay@anchoragea.com)>; Sanga, Ravi <[Sanga.Ravi@epa.gov](mailto:Sanga.Ravi@epa.gov)>; Hoffman, Erika <[Hoffman.Erika@epa.gov](mailto:Hoffman.Erika@epa.gov)>  
**Cc:** Brick Spangler <[Spangler.B@portseattle.org](mailto:Spangler.B@portseattle.org)>; 'Sloan, Jon' <[Sloan.J@portseattle.org](mailto:Sloan.J@portseattle.org)>  
**Subject:** RE: T25 Sediment Tier 2 Sample Analysis Recommendations

We have not triggered the archives yet, so please confirm that you agree with the trigger recommendations at your earliest convenience!

Thanks  
Dan

**Dan Berlin, PWS**  
Principal

**ANCHOR QEA, LLC**

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**From:** Joy Dunay <[jdunay@anchoragea.com](mailto:jdunay@anchoragea.com)>  
**Sent:** Tuesday, July 16, 2019 9:26 AM  
**To:** Sanga, Ravi <[Sanga.Ravi@epa.gov](mailto:Sanga.Ravi@epa.gov)>; 'Hoffman, Erika' <[Hoffman.Erika@epa.gov](mailto:Hoffman.Erika@epa.gov)>  
**Cc:** Brick Spangler <[Spangler.B@portseattle.org](mailto:Spangler.B@portseattle.org)>; 'Sloan, Jon' <[Sloan.J@portseattle.org](mailto:Sloan.J@portseattle.org)>; Dan Berlin

<dberlin@anchorgea.com>

**Subject:** RE: T25 Sediment Tier 2 Sample Analysis Recommendations

Hi Ravi and Erika,  
I'm just checking in on the T25 Sediment Tier 2 sample trigger recommendations.  
Let me know if you agree with our proposed path forward or have any questions.

Thank you,

**Joy Dunay**

Environmental Scientist  
206.903.3320

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**From:** Joy Dunay

**Sent:** Friday, June 21, 2019 9:43 AM

**To:** Sanga, Ravi <Sanga.Ravi@epa.gov>; 'Hoffman, Erika' <hoffman.erika@epa.gov>

**Cc:** Brick Spangler <Spangler.B@portseattle.org>; 'Sloan, Jon' <sloan.j@portseattle.org>; Dan Berlin  
<dberlin@anchorgea.com>

**Subject:** T25 Sediment Tier 2 Sample Analysis Recommendations

Hi Ravi and Erika,  
Thank you for meeting on June 11<sup>th</sup> to discuss the T25 sediment results. Attached is a table that shows all of the sediment samples collected and our suggested Tier 2 triggers with rationale for each location.

The actual sample location figure, preliminary (unvalidated) chemistry results table, and boring logs are included to assist with your review.

Let us know if you have any questions or need additional information. Upon EPA's approval we will request analysis of these additional samples.

Thank you,

**Joy Dunay**

Environmental Scientist

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C Ex. 6 Personal Privacy (PP)

**ANCHOR QEA, LLC**

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